

**Infoscience:**  
**EPFL's institutional repository**  
**Facts & perspectives**

Alain Borel & Pierre Devaud

**A green OA tool @ EPFL**

# TOC

- ⦿ Short introduction (team, goals, history, ...)
- ⦿ Incentives for scientists
- ⦿ Results
- ⦿ The future
- ⦿ Questions

## INFOSCIENCE

Rechercher Parcourir Déposer / Publier Aide



### Chercher des publications

Tous les champs ▾ Q

► Recherche avancée

Conseils de recherche



Accéder aux 100 881 publications scientifiques



Accéder aux 9 940 ressources documentaires

### Infoscience, les publications scientifiques de l'EPFL

Directive pour l'intégrité scientifique

Directive du Fonds National Suisse pour l'Open  
Access



#### ZENODO, un espace de travail partagé de nouvelle génération

04.10.13 Les dépôts de documents de recherche scientifique se sont multipliés ces dernières années. Les universités et organismes de recherche ouvrent peu à peu leur propre archive institutionnelle afin de recueillir ... »



#### Conférences Open Access, jeudi 24 octobre 2013

17.09.13 Dans le cadre de l'Open Access Week, la Bibliothèque de l'EPFL a le plaisir de vous inviter à la rencontre «Open Access : auteurs, éditeurs, financeurs et institutions au service ... »



#### La collecte des jeux de données scientifiques: un mouvement mondial

03.06.13 Il est généralement admis que le principe du libre accès consiste à mettre à disposition gratuitement sur la toile les résultats de la recherche sous forme de publications scientifiques (principalement ... »



Plus d'actualités

# Goals

**Facilitate access  
to scientific  
documents  
produced at  
EPFL**



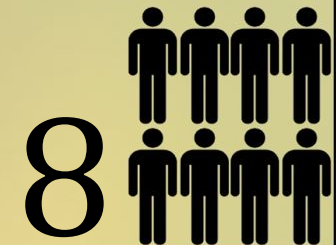
Working tool for EPFL  
scientists  
(Archive, Organize &  
Re-appropriate content)

Analysis & decision  
tool for EPFL faculties  
or management

Promote EPFL's knowledge  
& expertise to scientists,  
students or general public

# Team

- B. Deveaud-Plédran – Dean of Research
- P. Mellier – Head of Knowledge & Information Services
- I. Kratz – Head of the EPFL library
- D. Rey – Information Systems Coordinator
- G. Favre – Infoscience Technical Coordinator
- K. Mieusset – Director of Research Affairs
- A. Borel – Head of library IT service
- A. Grants – Research affairs IT Coordinator



**Steering Committee**

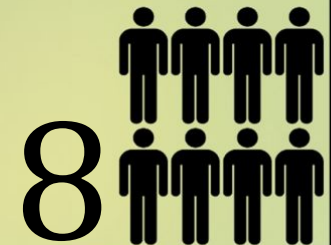
- G. Favre - Infoscience Technical Coordinator
- J. Delasoie – Infoscience Computer Scientist



**IT Development & Support**

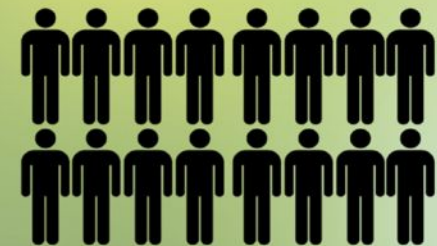
# Team

- A. Borel – Chemistry & Materials
- P. Devaud – Life sciences
- S. Pasquier – Physics & Civil engineering
- C. Senechaud – Architecture
- D. Decharte – Engineering
- C. Salamin – Management of Technology & Financial Engineering
- V. Charbonnier – Environmental engineering
- J. Junod – Mathematics



Liaison librarians

**=16 people involved**





# IT infrastructure

- Invenio, developed at CERN
- Small but growing community of users
- 1 production server (virtualized infrastructure)
- 1 test server (virtualized infrastructure)

- G. Favre - Infoscience Technical Coordinator
- J. Delasoie – Infoscience Computer Scientist



**IT Development & Support**



# A brief history of Infoscience

Big Bang

2004/08/31 10:58:58

WoS  
automatic import

MyProfile &  
WoS citations

2004

2010

2013

2007

2008

2009

Export  
interface

Wizard + WoS  
import

Sherpa link

# Incentives for scientists

→ **On-site presentation of Infoscience**  
(Liaison librarians)



What is Infoscience ?

OA advocacy

Why to use Infoscience ?

Infoscience and Green OA ?

OA benefits ?

How to use Infoscience ?

What is OA ?

OA and citations

# → **On-site presentation of Infoscience** **(Liaison librarians)**



## **Issues ?**

- ⊙ Liaison librarians must be clearly identified as Infoscience contact at EPFL
- ⊙ EPFL : a multi-site university (Lausanne, Geneva, Fribourg, Sion, Ras al-Khaimah)
- ⊙ Choose the right audience for OA advocacy

→ **Emphasis on user support  
(IT Help Desk & liaison librarians)**



"How do I publish  
in your Journal ?"



"I haven't received my reference  
in an alert yet. Will it come ?"



"How can I delete my reference ?"

"I can't see my reference  
on my website ! Why ?"

"That reference does NOT  
belong to me !"

"Why is this PDF in Open Access ! QUICK, limit the access please !"

→ **Emphasis on user support  
(IT Help Desk & liaison librarians)**



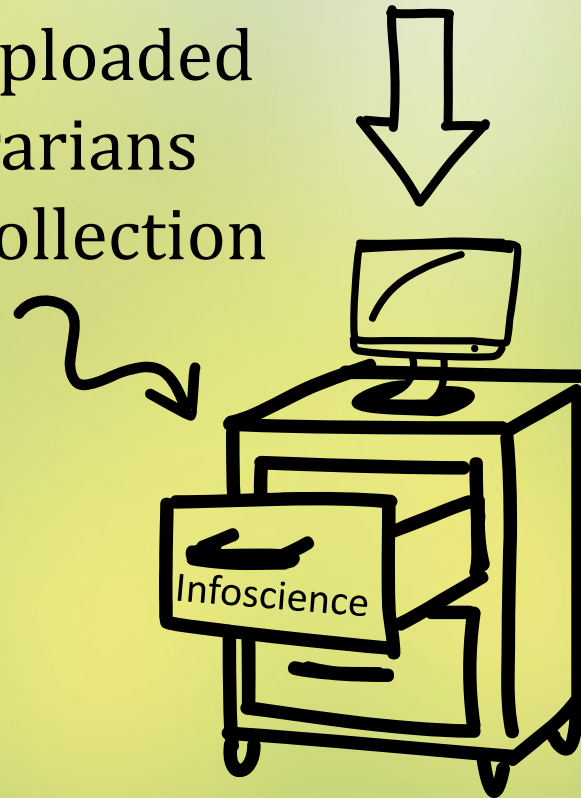
**Issues ?**

- ◎ Flexible Help Desk software
- ◎ General service quality

[Incentives for scientists]

## → **Facilitated submission** **(Scientists)**

1<sup>st</sup> references uploaded  
by liaison librarians  
into a new lab collection



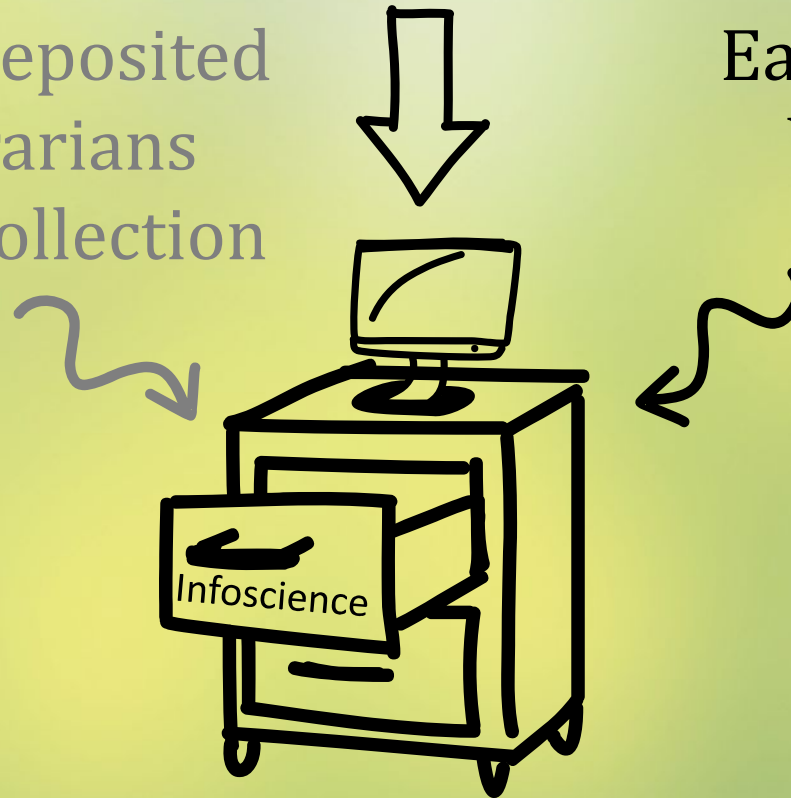


[Incentives for scientists]

# Facilitated submission (Scientists)

1st references deposited  
by liaison librarians  
into a new lab collection

Easy submissions  
by users then  
(Wizard)






[Incentives for scientists/ Facilitated submission]

# → Infoscience Wizard




**INFOSCIENCE**

Search Browse Deposit / Publish My account Help Admin

 License

1. License 2. Type 3. Description 4. Laboratories 5. Documents 6. Confirmation

**Description of your publication**

 If you think your publication might already be available on external databases (e.g. Web of Science), the wizard might be able to fill this form for you.

Start the wizard

About the article

\* Title

Example : Observation of Half Quantum Vortices in an Exciton-Polariton Condensate

[Incentives for scientists/ Facilitated submission]

# ➡ Infoscience Wizard



**Fill helper**

We can try to prefill the data for you if you can give some key informations

Search in

- ☐ R. L. Hanson, Y. L. Muller, S. Kobes, T. Guo and L. Bian et al. *A Genome-Wide Association Study in American Indians Implicates DNER as a Susceptibility Locus for Type 2 Diabetes Mellitus.*, accepted in Diabetes, 2013.
- ☐ W. G. Janzarik, E. Ehlers, R. Ehmann, T. A. Gerds and J. Schork et al. *Dynamic Cerebral Autoregulation in Pregnancy and the Risk of Preeclampsia.*, accepted in Hypertension, 2013.
- ☒ M. Newman, L. Wilson, G. Verdile, A. Lim and I. Khan et al. *Differential, dominant activation and inhibition of Notch signalling and APP cleavage by truncations of PSEN1 in human disease.*, accepted in Human molecular genetics, 2013.
- ☐ M. C. Singer, A. Heffernan and D. J. Terris. *Defining Anatomical Landmarks for Robotic Facelift Thyroidectomy.*, accepted in World journal of surgery, 2013.
- ☐ D. Lafkas, V. Rodilla, M. Huyghe, L. Mourao and H. Kiaris et al. *Notch3 marks clonogenic*

[Incentives for scientists/ Facilitated submission]

# → Infoscience Wizard

A screenshot of the 'Infoscience Wizard' submission form, tilted at an angle. The form has a white background with black text and a green border. It contains several input fields and a list of authors. The 'Title' field is at the top, followed by the 'Author' field which lists several names. Below that is the 'Abstract' field, which contains a paragraph of text. To the right of the form is a vertical column of red 'X' marks, with a green '+' mark at the bottom. The form is tilted at an angle, and the text is slightly blurred.

\* Title Differential, dominant activation and inhibition of Notch signaling by truncations of PSEN1 in human

Example : Observed

\* Author

- Q Newman, Morgan
- Q Wilson, Lachlan
- Q Verdile, Giuseppe
- Q Lim, Anne

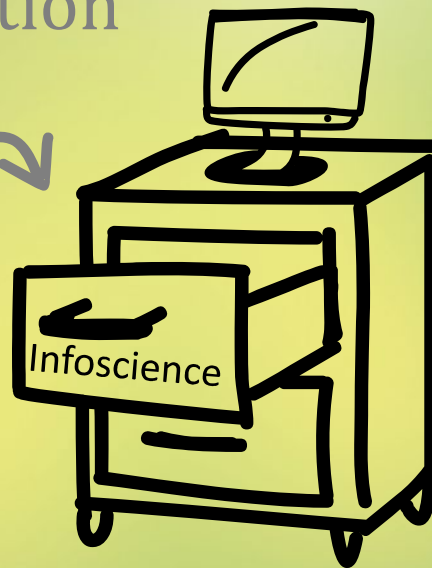
Abstract [?] PRESENILIN1 (PSEN1) is the major locus for mutations causing familial Alzheimer's disease (FAD) and is also mutated in Pick disease of brain, familial acne inversa and dilated cardiomyopathy. It is a critical facilitator of Notch signalling and many other signalling pathways and protein cleavage events including production of the Amyloid $\beta$  (A $\beta$ ) peptide from the AMYLOID BETA A4 PRECURSOR PROTEIN (APP). We previously reported that interference with splicing of transcripts of the zebrafish orthologue of PSEN1 creates dominant negative effects on Notch signalling. Here, we extend this work to show that various truncations of human PSEN1 (or

# Facilitated submission

(Scientists)

1st references deposited  
by liaison librarians  
into a new lab collection

Easy submissions  
by users then  
(Wizard)



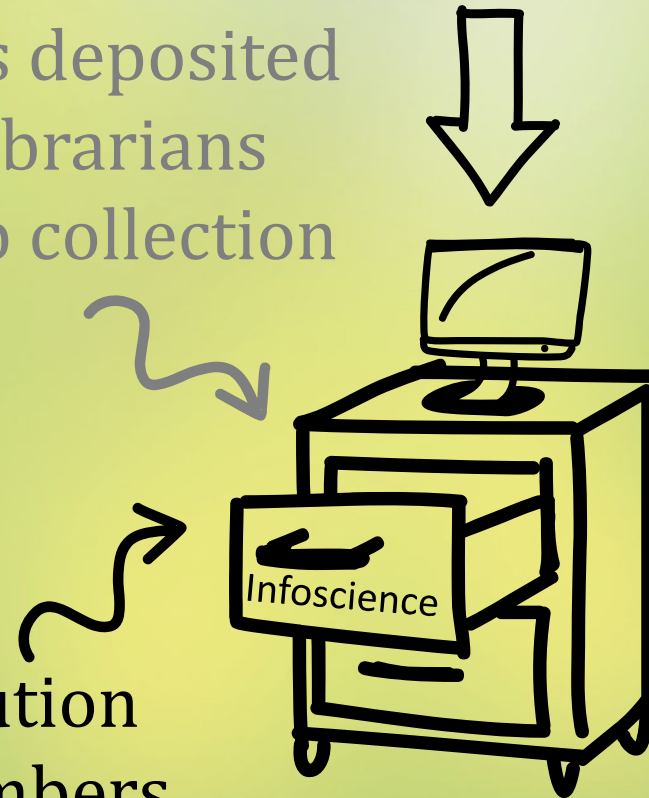
Automated  
reference retrieval  
(WoS)  
and lab attribution  
(validation required)

# Facilitated submission

(Scientists)

1st references deposited  
by liaison librarians  
into a new lab collection

Easy submissions  
by users then  
(Wizard)



Lab attribution  
by non-members  
(validation required)

Automated  
reference retrieval  
(WoS)  
and lab attribution  
(validation required)



[Incentives for scientists / Facilitated submission]



## Lab attribution



### Laboratories

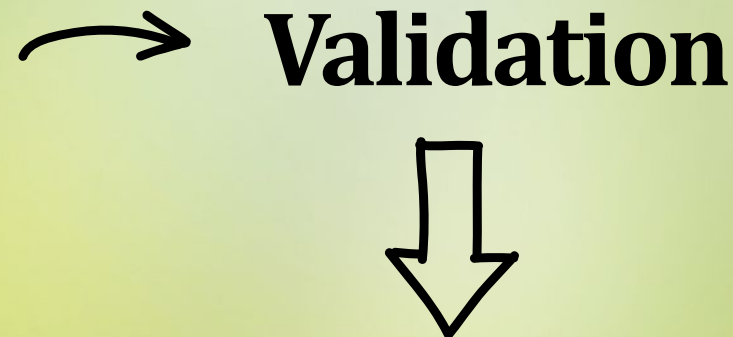
You can associate as many laboratories as you wish to your publication.  
We've selected laboratories that might be involved based on the information you've given us.

Are EPFL laboratories involved in this publication ? ☒ Yes ☐ No

#### Choose one of predetermined selection

- ☐ BMI - BMI - Unattributed publications
- ☐ COSADCCA - Consortium for the Preservation of Documentary Patrimony in Case of Disaster
- ☐ GHI - GHI - Unattributed publications
- ☐ GRHAD - Hadjikhani Group
- ☐ IBI - IBI - Unattributed publications
- ☐ INSERM-EPFL - Joint Research Unit INSERM-EPFL
- ☐ ISREC - ISREC - Unattributed publications
- ☐ LMNN - Laboratory of Molecular Neurobiology and Neuroproteomics
- ☐ LNCO - Laboratory of Cognitive Neuroscience

[Incentives for scientists / Facilitated submission]



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## Validate imported records

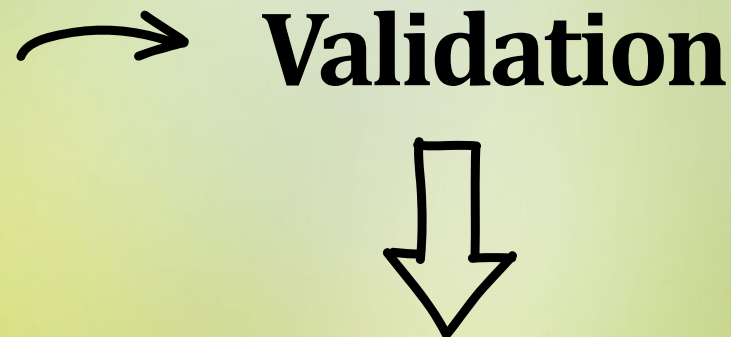
According to [Web of Science](#), documents not found in Infoscience have been published by your laboratory since 2008. You can check the automatically imported references and validate those that does actually belong to your laboratory with the "Edit and Accept" button. Once accepted, the references will quickly be added to your laboratory's collection.

**PROF. LUTOLF GROUP (UPLUT)** UNFILTER

Record	Fulltext Found on	Imported on	Status	
P. S. Lienemann, M. Karlsson, A. Sala, S. Hoehnel and O. Naveiras et al. Engineering biomimetic hydrogels for induced recruitment of mesenchymal stem cells in vitro and in vivo. . 2012. Detailed record: <a href="#">184388</a>	None <a href="#">Web of Science</a>	Wed 27 Feb 2013	UPLUT	<div><div>X Delete</div><div>Reject</div><div>Edit and Accept</div><div>Accept</div><div>Reassign</div></div>



[Incentives for scientists / Facilitated submission]



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**Validate records**

These are records submitted by users who marked your lab as producer of the record. Here you can validate if this information is true. If so, the record will appear in your lab's collection.

**PROF. LUTOLF GROUP (UPLUT)**

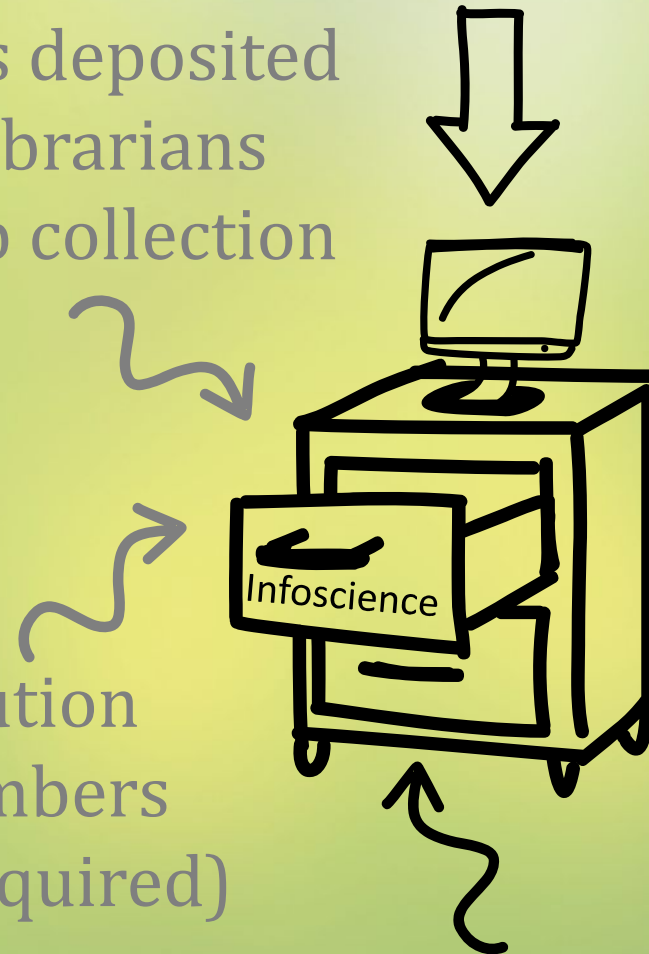
Record	Submitted by	Submitted on	
K. Pataky, T. Braschler, A. Negro, P. Renaud and M. P. Lutolf et al. Microdrop Printing of Hydrogel Bioinks into 3D Tissue-Like Geometries, in Advanced Materials, vol. 24, num. 3, p. 391-396, 2012. Detailed record: <a href="#">170612</a>	Loïc Jacot-Descombes	Tue 13 Dec 2011	<div><div> Reject</div><div> Accept</div></div>

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(Scientists)

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Easy submissions  
by users then  
(Wizard)



Lab attribution  
by non-members  
(validation required)

Automated  
reference retrieval  
(WoS)  
and lab attribution  
(validation required)

**Assisted fulltext deposit**

[Incentives for scientists / Facilitated submission]

# → Fulltext deposit ↓

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License

1. License

2. Type

3. Description

4. Laboratories

5. Documents

6. Confirmation

### Documents management



According to [sherpa](#), your publisher is open access compliant. Therefore, the fulltext of this publication should be made available to anyone.

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#### Main documents

Add...

File name

Size

Upload date

Type [?]

Availability

Update / Remove



215.full.pdf

1 MiB

10.10.13

Publisher's version

- ☒ Anyone
- ☐ Anyone but not until [?]
- ☐ EPFL only
- ☐ Involved laboratories only
- ☐ Authors only



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→ **Fulltext deposit**



**Issues ?**

- ⦿ OA mandate
- ⦿ Complicated publisher policies
- ⦿ Lack of postprint culture



## **Facilitated submission**

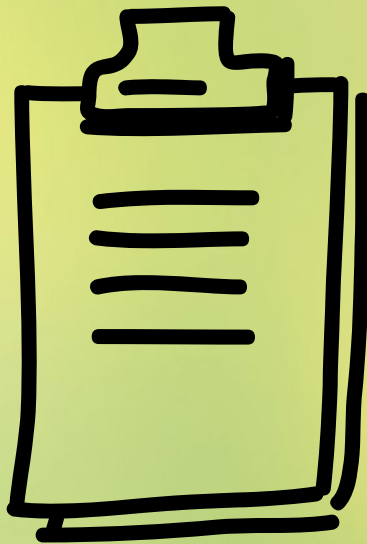


### **Issues ?**

- ⦿ In-house developments diverging from the original Invenio base code
- ⦿ IT maintenance
- ⦿ Significant human work to process imported refs the computer didn't handle



## Choice of editorial model



One person only  
(member of the lab or not)



A group of people  
(members of the lab or not)



With or without lab referee



[Incentives for scientists]



# Enhanced visibility



Indexed by Google &  
Google Scholar

Easy export  
(lab Web Page, EPFL directory,  
Personal reports, ...)

Linked references  
(through DOIs & DB IDs)

Author identification  
("Sciperisation" of Author = Infoscience internal  
AuthorID)



## [Incentives for scientists/ Enhanced visibility]

Google "Notch1 regulates angio-supportive bone marrow-derived cells in mice" 🔍

Web Images Maps Shopping Plus ▾ Outils de recherche

Environ 31'000 résultats (0,34 secondes)

**Notch1 regulates angio-supportive bone marrow-derived cells in ...**  
[www.ncbi.nlm.nih.gov/pubmed/23690447](http://www.ncbi.nlm.nih.gov/pubmed/23690447) • Traduire cette page  
de JML Roodhart - 2013 - Autres articles  
20 mai 2013 - Notch1 regulates angio-supportive bone marrow-derived cells in mice: relevance to chemoresistance. Roodhart JM, He H, Daenen LG. ...

#2 **Notch1 regulates angio-supportive bone marrow ... - Infoscience**  
[infoscience.epfl.ch](http://infoscience.epfl.ch) > Infoscience ▾ Traduire cette page  
de M Van Amersfoort - 2013 - Autres articles  
1 oct. 2013 - Notch1 regulates angio-supportive bone marrow-derived cells in mice: relevance to chemoresistance. Roodhart, Jeanine M. L.; He, Huanhuan; ...

#3 **[PDF] Notch1 regulates angio-supportive bone marrow - Infoscience**  
[infoscience.epfl.ch/.../Blood-2013-Roodhart-143-53...](http://infoscience.epfl.ch/.../Blood-2013-Roodhart-143-53...) ▾ Traduire cette page  
20 mai 2013 - Notch1 regulates angio-supportive bone marrow-derived cells in mice: relevance to chemoresistance. Jeanine M. L. Roodhart, Huanhuan He ...

**Full Text - Blood - HematologyLibrary.org**  
[bloodjournal.hematologylibrary.org/content/.../143.f...](http://bloodjournal.hematologylibrary.org/content/.../143.f...) • Traduire cette page  
de JML Roodhart - 2013 - Autres articles  
4 juil. 2013 - Notch1 regulates angio-supportive bone marrow-derived cells in mice: relevance to chemoresistance. Jeanine M. L. Roodhart, Huanhuan He ...

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### Publications

[Publications on Pubmed](#)

[Publications on Google Scholar](#)

#### 2013

M. Haj-Yahya, B. Fauvet, Y. Herman-Bachinsky, M. Hejaoui and S. N. Bavikar et al. Synthetic polyubiquitinated  $\alpha$ -Synuclein reveals important insights into the roles of the ubiquitin chain in regulating its pathophysiology, accepted in Proceedings of the National Academy of Sciences of the United States of America, 2013.

[Detailed record](#) - [View at publisher](#)

B. Fauvet, S. M. Butterfield, J. Fuks, A. Brik and H. A. Lashuel. One-pot total chemical synthesis of human  $\alpha$ -synuclein, in Chemical communications (Cambridge, England), vol. 49, num. 81, p. 9254-6, 2013.

[Detailed record](#) - [View at publisher](#)

A. Queslati, B. L. Schneider, P. Aebischer and H. A. Lashuel. Polo-like kinase 2 regulates selective autophagic  $\alpha$ -synuclein clearance and suppresses its toxicity in vivo, in Proceedings of the National Academy of Sciences of the United States of America, 2013.

[Detailed record](#) - [View at publisher](#)

A. W. Schmid, B. Fauvet, M. Moriatte and H. A. Lashuel. Alpha-synuclein post-translational modifications as potential biomarkers for Parkinson's disease and other synucleinopathies, in Molecular & cellular proteomics : MCP, 2013.

[Detailed record](#) - [View at publisher](#)

[Incentives for scientists / Enhanced visibility]

## HILAL LASHUEL

Contact Biography & current work Main publications Teaching & PhD

Print Share

### Publications

M. Haj-Yahya, B. Fauvet, Y. Herman-Bachinsky, M. Hejaoui and S. N. Baekar et al. *Synthetic polyubiquitinated  $\alpha$ -Synuclein reveals important insights into the roles of the ubiquitin chain in regulating its pathophysiology*, accepted in *Proceedings of the National Academy of Sciences of the United States of America*, 2013.

[Detailed record](#)

B. Fauvet, S. M. Butterfield, J. Fuks, A. Brik and H. A. Lashuel. *One-pot total chemical synthesis of human  $\alpha$ -synuclein*, in *Chemical communications* (Cambridge, England), vol. 49, num. 81, p. 9254-6, 2013.

[Detailed record](#)

A. Oueslati, B. L. Schneider, P. Aebischer and H. A. Lashuel. *Polo-like kinase 2 regulates selective autophagic  $\alpha$ -synuclein clearance and suppresses its toxicity in vivo*, in *Proceedings of the National Academy of Sciences of the United States of America*, 2013.

[Detailed record](#)

A. W. Schmid, B. Fauvet, M. Moniatte and H. A. Lashuel. *Alpha-synuclein post-translational modifications as potential biomarkers for Parkinson's disease and other synucleinopathies*, in *Molecular & cellular proteomics* MCP, 2013.



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Nationality : USA

Birth date : 15.01.1973

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**REVIEW**

# Islam: governments need to reform education and build a scientific culture.

Lashuel, Hlal A.; Zania, Nasser


**Published in:** Nature (ISSN: [1476-4687](#)), vol. 444, num. 7119, p. 545  
Nature Publishing Group, 2006


**Keywords:** [Islam](#) ; [Religion and Science](#)  
(2006)

**Reference**

- LMNN-REVIEW-2006-002
- [doi:10.1038/444545a](#)
- [View record in PubMed](#)
- [View record in Web of Science](#)

**FULLTEXT**

 [444545a \(pdf, 91 KiB\)](#)

 [Official version](#)

**CONTACTS**

[Laboratory of Molecular Neurobiology and Neuroproteomics](#)

**EPFL authors**

[Lashuel, Hlal A.](#)

Record created on 2009-10-28, modified on 2012-11-08



→ **My Profile**



Easily monitor the impact  
of publications  
referenced in Infoscience



- H-indices (GoogleScholarID or ResearcherID)
- Publication year distribution
- Number of available publication fulltexts



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of publications  
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- Number of fulltext downloads from Infoscience
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- Journal distribution



# INFOSCIENCE

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[Personal](#) | [GR-FE](#)

## Personal

**Name** | [Jacques Fellay](#)  (2 variantes)

**H-indexes** [?]  
28 on Google Scholar [Details](#)  
22 on Web of Science [Details](#)  
[Update...](#)

## Publications

**Distribution** [?]



**62 publications**

P. J. Clark, A. J. Thompson, M. Zhu, D. M. Vock and Q. Zhu et al. Interleukin 28B polymorphisms are the only common genetic variants associated with low-density lipoprotein cholesterol (LDL-C) in genotype-1 chronic hepatitis C and determine the association between LDL-C and treatment response, in *Journal of Viral Hepatitis*, vol. 19, num. 5, p. 332-340, 2012.

[Detailed record](#)

S. K. Pillai, M. Abdel-Mohsen, J. Guatelli, M. Skasko and A. Monto et al. Role of retroviral restriction factors in the interferon- $\gamma$ -mediated suppression of HIV-1 in vivo, in *Proceedings of the National Academy of Sciences*, vol. 109, num. 8, p. 3035-3040, 2012.

[Detailed record](#)

E. Ayday, J. L. Raisaro, M. Laren, P. Jack and J. Fellay et al. Privacy-Preserving Computation of Disease Risk by Using Genomic, Clinical, and Environmental Data (poster version). *USENIX Security Workshop on Health Information Technologies (HealthTech '13)*, Washington, DC, USA, August, 2013.

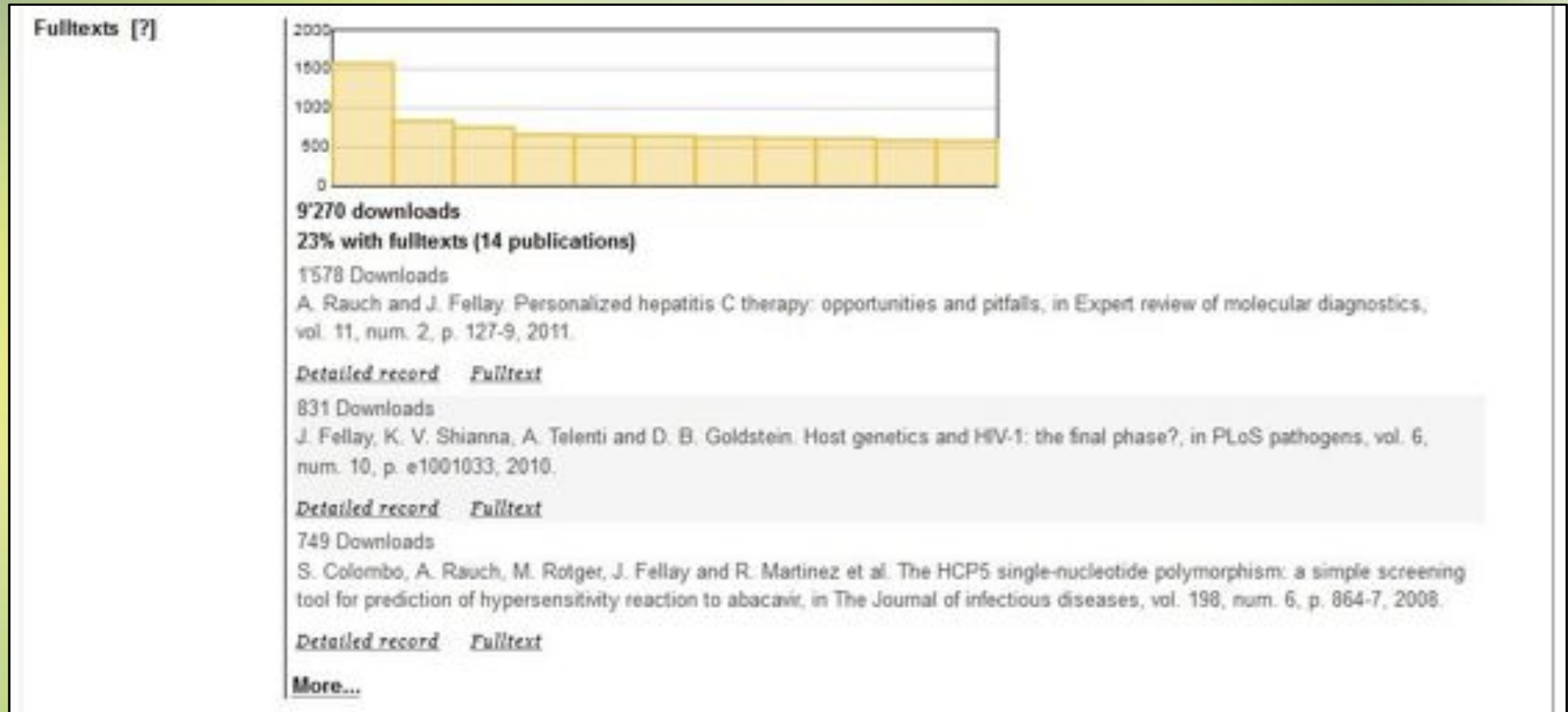
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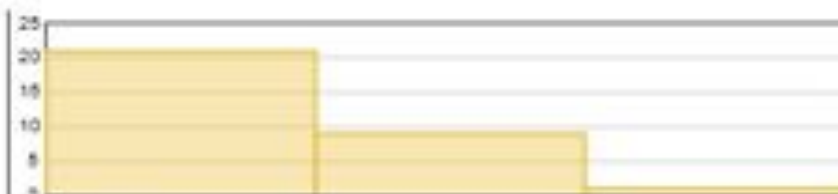
...



...

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### Citations [7]



#### 21 citations

K. Pelak, A. C. Need, J. Fellay, K. V. Shianna and S. Feng et al. Copy Number Variation of KIR Genes Influences HIV-1 Control, in Plos Biology, vol. 9, 2011.

[Detailed record](#)

#### 9 citations

J. Snoeck, J. Fellay, I. Bartha, D. C. Douek and A. Telenti. Mapping of positive selection sites in the HIV-1 genome in the context of RNA and protein structural constraints, in Retrovirology, vol. 8, p. -, 2011.

[Detailed record](#)

#### 1 citations

G. J. Vanasse, J.-Y. Jeong, J. Tate, H. Bathulapalli and D. Anderson et al. A polymorphism in the leptin gene promoter is associated with anemia in patients with HIV disease, in Blood, vol. 118, p. 5401-5408, 2011.

[Detailed record](#)

### Journals [7]



3 in Gastroenterology

3 in The Journal of infectious diseases

3 in Lancet

3 in Hepatology

2 in AIDS

2 in PLoS pathogens for Public Library of Science (PLOS)

2 in Antiviral therapy for International Medical Press (AIMP)

2 in Nature

2 in Blood

# Goals

**Facilitate access  
to scientific  
documents  
produced at  
EPFL**

Working tool for EPFL  
scientists  
(Archive, Organize &  
Re-appropriate content)

Analysis & decision  
tool for EPFL faculties  
or management

Promote EPFL's knowledge  
& expertise to scientists,  
students or general public

# Goals

> 100'000  
references

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> 8 mio  
fulltext downloads  
in 2012

Promote  
& expertise to  
students or general public



# Goals

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references

Working tool for EPFL  
scientists  
(Archive, Organize &  
Re-appropriate content)

Facilitate access  
to scientific  
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produced at

405 labs  
registered

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tool for scientific  
or

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in 2012

Promote  
& expertise to  
students or general public



# Goals

> 100'000  
references

33'994 fulltexts (JFL  
(24'441 OA)

Facilitate access  
to scientific  
publications

405 labs  
registered

Re-approprate content

Analysis & decision  
tools for scientific  
or

> 8 mio  
fulltext downloads  
in 2012

Promote  
& expertise to  
students or general public

# Goals

> 100'000  
references

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> 8 mio  
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5'718 references  
added in 2012  
(3'413 automatically)

for general public

# In 5 years from now ?

"The future is bright, the future is ... green"

- ⊙ OA mandate ?
- ⊙ More fulltexts (esp. OA and postprint)?
- ⊙ Evolution of user services (web 2.0)?
- ⊙ Research Data Management ?
- ⊙ Bibliometry (inc. Altmetrics and Infoscience as a citations dashboard )?
- ⊙ Evolution of the IT infrastructure (starting with data storage)?

# Questions

